



Applicant: **James D. Earthman et al.**  
Title: **METHODS AND APPARATUS FOR DETECTING AND  
QUANTIFYING SURFACE CHARACTERISTICS AND MATERIAL  
CONDITIONS USING LIGHT SCATTERING**

Serial No.: **10/823,385**  
Filed: **April 12, 2004**  
Art Unit: **2877**

Agent's File Reference: **9804-10**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22131-1450

Sir:

Applicant discloses herewith patents, publications or other information, of which they are aware that they believe may be material to the examination of the subject application, and in respect of which, there may be a duty to disclose. Each piece of disclosed information is listed on attached form PTO/SB/08A. Copies of the non-patent information are submitted herewith.

The filing of this information disclosure statement shall not be construed as a representation that a search has been made (37 C.F.R. § 1.97(g)), as an admission that the information cited is, or is considered to be, material to patentability, or that no other material information exists.

The filing of this information disclosure statement shall not be construed as an admission against interest in any manner. Notice of January 9, 1992, 1135 O.G. 13-25, at 25.

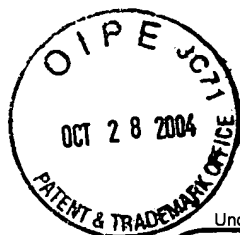
Respectfully submitted,

Dated: October 25, 2004

Eric K. Saterno  
Registration No. 40,159

17744 Skypark Circle, Suite 295  
Irvine, California 92614  
Telephone: (949) 752-9525





PTO/SB/08B (08-03)

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Complete if Known</b>			
		Application Number	10/823,385		
		Filing Date	April 12, 2004		
		First Named Inventor	James D. Earthman		
		Art Unit	2877		
Sheet	2	of	2	Examiner Name	
				Attorney Docket Number	9304-10

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	AB	BREDE ET AL., "Brittle Crack Propagation in Silicon Single Crystals," J. Appl. Phys., Vol. 70, No. 2, 15 July 1991, pp. 758-71.	
	AC	BUERKLE ET AL., "Rapid Defect Detection by Laser Light Scattering," Materials Evaluation, June 1992, pp. 670-77.	
	AD	DIAZ ET AL., "Optical Measurement of the Plastic Zone Size in a Notched ...," Optics and Lasers in Engineering, Vol. 35, 2001, pp. 325-33.	
	AE	VALLIANT ET AL., "Instrument for On-line Monitoring of Surface ...," Opt. Eng., Vol. 39, No. 12, December 2000, pp. 3247-54.	
	AF	ZHAO ET AL., "Characterization of Pitting Corrosion in Aluminum ...," Applied Physics Letters, Vol. 73, No. 17, 26 October 1998, pp. 2432-34.	

Examiner Signature	Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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